

ABSTRACT

There is provided a mobile station device in a multi-hop system capable of realizing relay of communication of another station while suppressing increase of power consumption of the local station. In this device, at timing t1, a mobile station MS2 transmits data S2 destined to a base station BS1, to a mobile station MS1. The mobile station MS1 receives the data S2 and temporarily stores it in a buffer. The mobile station MS1 waits until timing t4 when the data S1 of the mobile station MS1 is to be transmitted. When this timing has come, the data S2 stored in the buffer is multiplexed with the data S1 of the mobile station MS1 and transmitted to the base station BS1.